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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,035	08/21/2003	Michael E. Ring	CRD 01482 7356	
7590 05/11/2006			EXAMINER	
JAMES RAY & ASSOCIATES			BURCH, MELODY M	
2640 Pitcairn Road Monroeville, PA 15146			ART UNIT	PAPER NUMBER
			3683	
			DATE MAILED: 05/11/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u> </u>	Application No.	Applicant(s)		
Office Action Summary		10/645,035	RING ET AL.		
		Examiner	Art Unit		
		Melody M. Burch	3683		
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address		
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be still apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).		
Status		-			
1)⊠	Responsive to communication(s) filed on 30 M	<u>arch 2006</u> .			
2a) <u></u> □	This action is FINAL. 2b)⊠ This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11,	453 O.G. 213.		
Disposit	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-13 and 16-21 is/are pending in the a 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-13 and 16-21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.	-		
Applicat	ion Papers	•			
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. So on is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority (ınder 35 U.S.C. § 119				
12)□ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applica ity documents have been received in Rule 17.2(a)).	ition No ved in this National Stage		
Attachmen					
·	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summar Paper No(s)/Mail [• •		
3) 🔲 Infori	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		Patent Application (PTO-152)		

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/30/06 has been entered.

Drawings

2. The drawings are objected to because in line 1 of paragraph [0036] of the application publication element number "98" is used to designate a cavity, however, in figure 2 element number "98" appears to be directed to a bolt. Also in figure 2 element number 56 points to a curved portion of the air spring but in the remarks filed 2/28/05 Applicant admitted that "56" was a planar surface. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief

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description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. In addition to Replacement Sheets containing the corrected drawing figure(s), applicant is required to submit a marked-up copy of each Replacement Sheet including annotations indicating the changes made to the previous version. The marked-up copy must be clearly labeled as "Annotated Sheets" and must be presented in the amendment or remarks section that explains the change(s) to the drawings. See 37 CFR 1.121(d)(1). Failure to timely submit the proposed drawing and marked-up copy will result in the abandonment of the application.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 19-21 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 6116385 to Ring.

Re: claim 19. Ring shows in figures 1 and 3 an actuating member for a

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raïlway vehicle brake assembly, such railway vehicle brake assembly having an air bag actuator 58,60 incorporated therein, said actuating member comprising: a first substantially vertically disposed plate like member or right side of element 50, said first substantially vertically disposed plate like having a first substantially planer surface shown in the area of the lead line of number 51 engageable via intervening elements with a first surface shown in the area of the lead line of number 88 of a second substantially vertically disposed plate like member shown in the area of element number 83 attached to such air bag actuator, a substantially horizontally disposed plate like member shown in the area of the lead line of number 84 connected to the first substantially vertically disposed plate like member adjacent a bottom edge thereof and extending substantially perpendicular to the first planar surface of the first vertically disposed plate member for shielding at least a first portion of the air bag actuator from foreign material as shown, and a means shown at the left end of element 60 connected to a radially opposed second surface of the first vertically disposed plate like member via intervening elements for securing the actuating member to a control linkage (or element connected to the left end of element 60 shown in figure 1) of the assembly.

Re: claim 20. Ring shows in figure 3 the limitation wherein the actuating member further includes a first plate member 82 connected to an upper surface of the substantially horizontally disposed member and to the first planar surface of the first substantially vertically disposed plate like member adjacent a first side edge thereof and extending substantially perpendicular thereto for shielding at least a second portion of the air bag actuator from foreign material and for providing added strength.

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Re: claim 21. Ring shows the invention as set forth in the rejection of claim 1 above and shows a guide means (upper portions of 74, the upper portion of thin piece directly connected to element 74, and the upper connector connecting the thin piece to element 74) the thin L-shaped piece of which directly connected to and disposed closely adjacent a first outer edge of substantially perpendicular (the horizontal part of the L-shape) to the planar surface portion of the first vertically disposed plate member for guiding and alignment and a securing means 82 connected to the first substantially vertically disposed plate member for enabling attachment to a rigid structure. In claim 9 the means connected to a radially opposed second surface of the first substantially vertically disposed plate like member is element 61.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-4, 6-13, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6116385 to Ring in view of US Patent 6142480 to Streitman et al.

Re: claim 1. Ring shows in figures 1 and 3 an actuating member for a raïlway vehicle brake assembly, such railway vehicle brake assembly having an air bag actuator 58,60 incorporated therein, said actuating member comprising: a first

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substantially vertically disposed plate like member or right side of element 50, said first substantially vertically disposed plate like having a first substantially planer surface shown in the area of the lead line of number 51 engageable via intervening elements with a first surface shown in the area of the lead line of number 88 of a second substantially vertically disposed plate like member shown in the area of element number 83 attached to such air bag actuator, a substantially horizontally disposed plate like member shown in the area of the lead line of number 84 connected to the first substantially vertically disposed plate like member adjacent a bottom edge thereof and extending substantially perpendicular to the first planar surface of the first vertically disposed plate member for shielding at least a first portion of the air bag actuator from foreign material as shown, and a means shown at the left end of element 60 connected to a radially opposed second surface of the first vertically disposed plate like member via intervening elements for securing the actuating member to a control linkage (or element connected to the left end of element 60 shown in figure 1) of the assembly.

Ring is silent with regards to the operating environment being characterized by a presence of detrimental extraneous foreign material.

Streitman et al. teach in col. 1 the use of a railway vehicle brake being in the environment characterized by a presence of detrimental extraneous foreign material.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have included a surrounding environment characterized by detrimental extraneous foreign material, as taught by Streitman et al., since it is old and

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well-known in the art that railway vehicle's produce emissions that are byproducts of the generated power for the vehicle.

Re: claim 2. Ring shows in figure 3 the limitation wherein the actuating member further includes a first plate member 82 connected to an upper surface of the substantially horizontally disposed member and to the first planar surface of the first substantially vertically disposed plate like member adjacent a first side edge thereof and extending substantially perpendicular thereto for shielding at least a second portion of the air bag actuator from foreign material and for providing added strength.

Re: claim 3. Ring shows in figure 3 the limitation wherein the actuating member further includes a second plate like member 31 connected to the upper surface of the substantially horizontally disposed member via intervening elements and to the first planer surface of the first substantially vertically disposed plate like member adjacent a second side edge thereof and extending substantially perpendicular thereto for shielding at least a third portion of the air bag actuator from foreign material and for providing added strength.

Re: claims 4 and 8. Ring shows in figure 3 the limitation wherein the first vertically disposed plate member includes at least one mounting aperture 64 formed therethrough. Or in an alternate interpretation the first vertically disposed member can be element 83 and the mounting aperture can be element 86.

Re: claims 6, 9, and 10. Ring shows the invention as set forth in the rejection of claim 1 above and shows a guide means (upper portions of 74, the upper portion of thin piece directly connected to element 74, and the upper connector connecting the thin

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piece to element 74) the thin L-shaped piece of which directly connected to and disposed closely adjacent a first outer edge of substantially perpendicular (the horizontal part of the L-shape) to the planar surface portion of the first vertically disposed plate member for guiding and alignment and a securing means 82 connected to the first substantially vertically disposed plate member for enabling attachment to a rigid structure. In claim 9 the means connected to a radially opposed second surface of the first substantially vertically disposed plate like member is element 61.

Re: claim 7. Ring shows in figure 3 a pair of guide means 72,74, a second one of the pair of guide means (the lower portions of 74, the lower portions of thin piece directly connected to element 74, and the lower connector connecting the thin piece to element 74) disposed closely adjacent a second outer edge of and substantially perpendicular to the planar surface portion of the first vertically diposed plate member.

Re: claims 11 and 12. Ring shows in figure 3 a means or shoulder 56 for limiting reciprocal motion of the air spring actuator.

Re: claim 13. Ring shows in figure 3 an air inlet 64 in communication with the at least one air bag spring 59.

Re: claim 18. Ring shows in figure 3 wherein the air spring actuator assembly further includes means 62,64 disposed therein for controlling volume of air in the at least one air bag spring.

8. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ring in view of Streitman et al. as applied to claim 1 above, and further in view of US Patent 6267043 to Plantan et al.

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Re: claim 5. Ring, as modified, teach in figure 3 of Ring the limitation wherein the means connected to the radially opposed second surface of the first vertically disposed plate member for securing the actuating member to the control linkage of the railway vehicle brake assembly includes at least one plate member or bottom plate of the leftmost side of element 60 having an aperture as shown formed therethrough.

Ring, as modified, does not include the limitation of a pin member disposed in the aperture for securing the at least one plate member to such control linkage.

Plantan et al. teach in figures 2 and 4 the use of a brake actuator having a plate member 84 having an aperture 86 and a pin member 88 disposed in the aperture.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the aperture of the plate member of Ring, as modified, to have included a pin member therethrough, as taught by Plantan et al., in order to provide a means of reciprocating element 60 within elements 83 and 84.

9. Claims 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ring in view of Streitman et al. as applied to claim 9 above, and further in view of US Patent 4846785 to Cassou et al.

Ring, as modified, describes the invention substantially as set forth above, but does not include the limitation of a visual travel indicator.

Cassou et al. teach in col. 4 lines 2-5 the limitation of an actuator including a visual travel indicator or markings 20.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the portion of element 60 of Ring, as modified,

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extending outside element 83 to have included a visual travel indicator, as taught by Cassou et al., in order to provide a means of monitoring linear travel of element 60 to monitor the amount of brake actuation for brake control purposes.

Response to Arguments

10. Applicant's arguments filed 3/30/06 have been fully considered but they are not persuasive.

In response to Applicant's amendments, Examiner notes that the airbag actuator is now considered as being encompassed by elements 58,60. Therefore, an exterior surface of portion 60 of the airbag actuator 58,60 is exposed to the operating environment as shown in Ring.

Accordingly, the rejections have been maintained. The drawing objections have been maintained because Applicant failed to provide annotated drawings as set forth in paragraph 2 of the Office action mailed on 2/1/06.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melody M. Burch whose telephone number is 571-272-7114. The examiner can normally be reached on Monday-Friday (6:30 AM-3:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James McClellan can be reached on 571-272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

mmb May 10, 2006

Melody M. Burch
Primary Examiner
Art Unit 3683

5/10/06